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subincurva vacua sub ore constricta, peristomii dentibus 16 majusculis siccis subhorizontaliter incurvis humidis erectis apice leniter recurvis, articulationibus dorso valde prominentibus; autoica; fl. masc. parvo juxta femineum posito.

Hab. On the branches of a Live Oak, Florida, Feb. 1877, *Capt. John Donnell Smith*.

Mode of growth and form of capsule much as in *Hypnum microcarpum*, C. M., but smaller in all its parts, with narrower and more narrowly reticulated leaves not recurved on the margin, the inflated cells at the basal angles more numerous, peristome single, &c.—Remarkable for the prominent articulations of the peristomal teeth.

RAUIA, nov. gen.

Rauia scita, AUST.—*Hypnum scitum*, BEAUV., Prod. p. 69; AUST. *Musc. Appalach. n.* 300; also this Journal, vol. v., p. 3.—*Thuidium Appalachiani*, AUST., Mss.

Modus vegetandi, folii formis et textura ut in *Thuidio*, sed capsula peristomiaque leskeoidea.

Thuidium Alleni, *n. sp.*—Caule erecto vel depresso fasciculatim innovando bipinnatim ramuloso dense paraphyllato; foliis siccis crispatis, humidis latissime ovatis concavis brevissime subacuminulatis obtusis vel acutis planis vel subsulcatis, margine minutissime papillato-crenulata pro more plana, costa valida fere ad apicem continua, basi auriculata subdecurrente, cellulis minutissimis plerumque distinctis rotundiusculis minute unipapillosis, basilaribus vix majoribus; ramulis inferioribus brevibus laxis flexuosis eparaphyllatis, foliis minutis valde concavis ovatis obtusis, costa tenuiore et paullo breviori; superioribus majoribus strictis paucissime brevissime paraphyllatis, foliis cum caulinis subconfoimibus; paraphylliis longis simplicibus vel parce divisis geniculatis; floribus et fructu ignotis.

Hab. In a peat swamp near New Haven, Conn., Jan. 1880, *Mr. John Allen*. Communicated by *Prof. O. F. Allen* of the Sheffield Scientific School. Resembles *Thuidium minutulum* (HEDW.), but is much larger. At a casual glance it would be apt to be mistaken for *Elodium paludosum*, SULLIV. But that is never bipinnate, has leaves acutely acuminate with longish cells, which are often not papillose, &c. It gives me great pleasure to be able to dedicate so fine a species to the Allens, father and son. They have recently sent me ample specimens of some very rare mosses, all in the finest condition. Among these is *Trichodon nodulosum*, AUST.

§ 8. **Cheilanthes vestita**, Swartz.—Mr. Chas. N. Arnold has sent us from Poughkeepsie a number of specimens of *Cheilanthes vestita*, Willd., gathered near that city by Mr. Clarence Lown. A note from Mr. Lown states that this fern was first detected by him growing on the rocks in the vicinity of the river in April, 1877. Afterwards, in September of the same year, he found it again growing luxuriantly on the rocks at New Paltz Landing, just south of the ferry dock, and opposite Poughkeepsie. The only other known station in New York for this fern is Washington Heights, where it was detected some years ago by Mr. Denslow. As Mr. C. H. Peck remarks, Poughkeepsie will doubtless prove its northern limit in this State.

§ 9. **Trichomanes radicans**, Swz.—Mrs. F. J. Harlow has sent